Substitute for form 1449A/PTO			/PTO	Complete if Known		
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			.ICAN I	First Named Inventor	Nicholas L. Abbott	
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Sheet	1	of	T 1	Attorney Docket Number	061818-5002-US04	

U.S. PATENT DOCUMENTS									
Exr Initials	Exr Initials U.S. Patent Document		Name of Inventor or Applicant of Cited	Date of Publication of					
	Number	Kind Code (if	Document	Cited Document					
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	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Exr Initials	Include Name of Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Tı
	Motohiro, T.; Taga, Y. Sputter-Deposited SiO _x Films for Liquid Crystal Alignment, <i>Thin Solid Films</i> , 1990, 185 (1), pp 137-144.	Г
	Sanda et al. Role of Surface Bonding on Liquid-Crystal Alignment at Metal Surfaces, <i>Physical Review A</i> , 1989, 39 (5), pp 2653-2658.	
	Nishikata et al. Orientation of Polymer Chain of Polyimide LB Films, and Alignment of Liquid Crystals on the LB Films, Nippon Kagaku Kaishi, 1987 (11), pp 2174-2179.	
	Wittmann, J. C.; Smith, P. Highly Oriented Thin Films of Poly(tetrafluoroethylene) as a Substrate for Oriented Growth of Materials, Nature 1991, 352 (6334), pp 414-417.	
	Lee et al. Detailed Morphology of Rubbed Alignment Layers and Surface Anchoring of Liquid Crystals, Jpn. J. Appl. Phys., 1993, 32 Pt. 2 (12B), pp L1822-L1825.	
	Vithana et al. Controlled Tilted Homeotropic Alignment of Liquid Crystals for Display Applications, Jpn. J. Appl. Phys., 1996, 35 Pt. 2 (3A), pp L320-L323.	
	Barbero, G.; Durand, G. Curvature Induced Quasi-Melting from Rough Surfaces in Nematic Liquid Crystals, Journal de Physique II, 1991, 1 (6), pp 651-658.	
	Uemura et al. Alignment of Chiral Smectic-C Liquid Crystals by Oblique Evaporation Method, <i>Proceedings of the SID</i> , 1987, 28 (2), pp 175-181.	
	Hong et al. Cysteine-Specific Surface Tethering of Genetically Engineered Cytochromes for Fabrication of Metalloprotein Nanostructures, Langmuir, 1994, 10 (1), pp 153-158.	
	Le Grange et al. Effects of Surface Hydration on the Deposition of Silane Monolayers on Silica, Langmuir, 1993, 9 (7), pp 1749-1753.	

DB2/22240611.2

Examiner Signature	Date Considered	

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